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**1** [Cache-oblivious databases: Limitations and opportunities](#)
[Bingsheng He, Qiong Luo](#)

June 2008

**Transactions on Database Systems (TODS)**, Volume 33 Issue

**Publisher:** ACM [Request Permissions](#)

 Full text available: [Pdf](#) (1.09 MB)

 Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 35, Downloads (12 Months): 316, Citatic

Cache-oblivious techniques, proposed in the theory community, have of  
amount of data transferred between any two adjacent levels of an arbit  
this optimal performance is achieved without any ...

**Keywords:** Cache-oblivious, cache-conscious, chip multiprocessors, da  
multithreading

**2** [Computation spreading: employing hardware migration to specialize](#)
[Koushik Chakraborty, Philip M. Wells, Gurindar S. Sohi](#)

 November 2006 **ASPLOS-XII: Proceedings of the 12th international confere**  
programming languages and operating systems

**Publisher:** ACM [Request Permissions](#)

 Full text available: [Pdf](#) (232.44 KB)

 Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 118, Citatic

In canonical parallel processing, the operating system (OS) assigns a pr  
from a multithreaded server application. Since different threads from th  
out similar computation, albeit at different ...

**Keywords:** cache locality, dynamic specialization

Also published in:

 October 2006 **SIGARCH Computer Architecture News** Volume 34 Issue 5

 October 2006 **SIGOPS Operating Systems Review** Volume 40 Issue 5

 November 2006 **SIGPLAN Notices** Volume 41 Issue 11

**3** [Pipeline spectroscopy](#)
[Thomas R. Puzak, A. Hartstein, P. G. Emma, V. Srinivasan, Arthur Nadas](#)

 June 2007 **ExpCS '07: Proceedings of the 2007 workshop on Experimenta**
**Publisher:** ACM

 Full text available: [Pdf](#) (305.12 KB)

 Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 19, Citation

Pipeline Spectroscopy is a new technique that allows us to measure the


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of a miss is displayed (graphed) as a histogram, which represents a pre visualization of the cost of each cache miss ...

**Keywords:** cache, convex combination, cost of a miss, probability tran:

#### 4 [DHIS: discriminating hierarchical storage](#)

 Chaitanya Yalamanchili, Kiron Vijayasankar, Erez Zadok, Gopalan Sivathan  
May 2009 **SYSTOR '09**: Proceedings of SYSTOR 2009: The Israeli Experi

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (208.96 KB) Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 36, Citation

A typical storage hierarchy comprises of components with varying perfo providing multiple options for data placement. We propose and evaluate DHIS, that uses application-level hints to discriminate ...

**Keywords:** file systems, intelligent disks, storage stack, storage system

#### 5 [Peta-scale data warehousing at Yahoo!](#)

 Mona Ahuja, Cheng Che Chen, Ravi Gottapu, Jörg Hallmann, Waqar Hasan, Kozycrczak, Ramesh Pabbati, Neeta Pandit, Sreenivasulu Pokuri, Krishna Up  
June 2009 **SIGMOD '09**: Proceedings of the 35th SIGMOD international c

**Publisher:** ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (823.92 KB) Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 100, Downloads (12 Months): 187, Citat

Insights based on detailed data on consumer behavior, product perform are driving innovation and competition in the internet space. We introdu warehousing engine, based on a column architecture ...

**Keywords:** analytics, business intelligence, column database, column s database, vector query processing

#### 6 [Extending query rewriting techniques for fine-grained access control](#)

 Shariq Rizvi, Alberto Mendelzon, S. Sudarshan, Prasan Roy  
June 2004 **SIGMOD '04**: Proceedings of the 2004 ACM SIGMOD internati  
of data

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (172.57 KB) Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 122, Citat

Current day database applications, with large numbers of users, require mechanisms, at the level of individual tuples, not just entire relations/vi data can be accessed by each user. Fine-grained ...

#### 7 [Replay-based approaches to revision processing in stream query en](#)

 Anurag S. Maskey, Mitch Cherniack  
March 2008 **SSPS '08**: Proceedings of the 2nd international workshop on S

**Publisher:** ACM

Full text available:  [Pdf](#) (433.78 KB) Additional Information: [full citation](#), [abstract](#),


**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 53, Citation

Data stream processing systems have become ubiquitous in academic a

application areas that include financial services, network traffic analysis control. The append-only model of streams implies ...

**Keywords:** corrections, revision processing, revisions, streams

## 8 [Horizontal aggregations for building tabular data sets](#)

 [Carlos Ordonez](#)

June 2004 **DMKD '04:** Proceedings of the 9th ACM SIGMOD workshop on and knowledge discovery

**Publisher:** ACM

Full text available:  [Pdf](#) (183.18 KB) Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 53, Citation

In a data mining project, a significant portion of time is devoted to build analysis. In a relational database environment, building such data set u aggregating columns with SQL queries. Existing ...

## 9 [Bridging the gap between OLAP and SQL](#)

[Jens-Peter Dittrich](#), [Donald Kossmann](#), [Alexander Kreutz](#)

August 2005 **VLDB '05:** Proceedings of the 31st international conference on

**Publisher:** VLDB Endowment

Full text available:  [Pdf](#) (409.18 KB) Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 90, Citation

In the last ten years, database vendors have invested heavily in order t features for decision support. Examples of functionality that has been a 7], spreadsheet computations [19], grouping ...

## 10 [SQL memory management in Oracle9i](#)

[Benoît Dageville](#), [Mohamed Zait](#)

August 2002 **VLDB '02:** Proceedings of the 28th international conference on

**Publisher:** VLDB Endowment

Full text available:  [Pdf](#) (107.63 KB) Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 52, Citation


Complex database queries require the use of memory-intensive operato operators need memory, also referred to as SQL memory, to process th sort operator uses a work area to perform the in-memory ...

## 11 [Adding subqueries to MySQL, what does it take to have a decision-s](#)

 [Antonio Badia](#), [Matt Chanda](#), [Bin Cao](#)

November 2002 **DOLAP '02:** Proceedings of the 5th ACM international work OLAP

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (200.24 KB) Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 83, Citation

MySQL is an OLTP system without the ability to handle SQL subqueries. optimization, we add subquery processing to MySQL through rewriting. handle subqueries in the FROM clause; then ...

**Keywords:** SLQ, query optimization, unnesting

## 12 [Queue: Volume 6 Issue 3](#)

May 2008 Queue  
 **Publisher:** ACM

Full text available:  Digital Edition ,  Pdf (5.56 MB) Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 107, Downloads (12 Months): 723, Citations

### 13 [Compression techniques for fast external sorting](#)

[John Yiannis](#), [Justin Zobel](#)

April 2007 **The VLDB Journal — The International Journal on Very Large Databases**

**Publisher:** Springer-Verlag New York, Inc.


Full text available:  Pdf (433.12 KB) Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 117, Citations

External sorting of large files of records involves use of disk space to store data, time for sorting, and transfer time between CPU, cache, memory, and disk. It also involves disk and transfer costs, and, in the case of external ...

**Keywords:** External sorting, Query evaluation, Semi-static compression

### 14 [Communications of the ACM: Volume 52 Issue 9](#)


 September 2009 Communications of the ACM

**Publisher:** ACM

Full text available:  Digital Edition ,  Pdf (7.28 MB) Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 2250, Downloads (12 Months): 2250, Citations

### 15 [Compiling mappings to bridge applications and databases](#)

 [Sergey Melnik](#), [Atul Adya](#), [Philip A. Bernstein](#)

November 2008 **Transactions on Database Systems (TODS)** , Volume 33 Issue 4

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (1.40 MB) Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 38, Downloads (12 Months): 455, Citations

Translating data and data access operations between applications and database management problem. We present a novel approach to this problem, in which the application data and the persistent storage is ...

**Keywords:** Mapping, query rewriting, updateable views

### 16 [PNUTS: Yahoo!'s hosted data serving platform](#)

[Brian F. Cooper](#), [Raghu Ramakrishnan](#), [Utkarsh Srivastava](#), [Adam Silberstein](#), [Nick Puz](#), [Daniel Weaver](#), [Ramana Yerneni](#)

August 2008 **Proceedings of the VLDB Endowment** , Volume 1 Issue 2

**Publisher:** VLDB Endowment

Full text available:  Pdf (495.87 KB) Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 224, Citations

We describe PNUTS, a massively parallel and geographically distributed web applications. PNUTS provides data storage organized as hashed or indexed data with large numbers of concurrent requests including updates ...

### 17 [Retrospective on Aurora](#)

[Hari Balakrishnan](#), [Magdalena Balazinska](#), [Don Carney](#), [Uğur Çetintemel](#), [M. Eddie Galvez](#), [Jon Salz](#), [Michael Stonebraker](#), [Nesime Tatbul](#), [Richard Tibbe](#)

December 2004 **The VLDB Journal — The International Journal on Very Large Databases**  
Issue 4

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  Pdf (349.43 KB)

Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 47, Citation

This experience paper summarizes the key lessons we learned through of the Aurora stream-processing engine. For the past 2 years, we have applications using Aurora. We first describe in detail ...


**Keywords:** Data stream management, Distributed stream processing, IaaS, Cloud-service, Stream-processing engines

# 18 [MIL primitives for querying a fragmented world](#)

[Peter A. Boncz](#), [Martin L. Kersten](#)

October 1999 **The VLDB Journal — The International Journal on Very Large Databases**  
2

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  Pdf (261.36 KB)

Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 37, Citation

In query-intensive database application areas, like decision support and vertical fragmentation have a significant performance advantage. In order to support such applications on top of such a fragmented ...

**Keywords:** Database systems, Main-memory techniques, Query language, Vertical fragmentation

# 19 [Database-aware semantically-smart storage](#)

[Muthian Sivathanu](#), [Lakshmi N. Bairavasundaram](#), [Andrea C. Arpaci-Dusseau](#)

December 2005 **FAST'05: Proceedings of the 4th conference on USENIX File Systems and Storage Technologies - Volume 4**, Volume 4

**Publisher:** USENIX Association

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

Recent research has demonstrated the potential benefits of building storage file systems above them. Such "semantically-smart" disk systems use new structures and operations to improve performance, availability, ...

# 20 [To tune or not to tune?: a lightweight physical design adviser](#)

[Nicolas Bruno](#), [Surajit Chaudhuri](#)

September 2006 **VLDB '06: Proceedings of the 32nd international conference on Very Large Databases**

**Publisher:** VLDB Endowment





Full text available:  Pdf (733.90 KB)

Additional Information: [full citation](#), [abstract](#),

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 44, Citation

In recent years there has been considerable research on automating the physical design of database systems. Current techniques provide good recommendations, but are often conservative when deciding to launch a resource-intensive query.

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